

Title (en)  
DUST SENSOR MODULE AND OPERATING METHOD THEREOF

Title (de)  
STAUBSENSORMODUL UND BETRIEBSVERFAHREN DAFÜR

Title (fr)  
MODULE DE CAPTEUR DE POUSSIÈRE ET SON PROCÉDÉ DE FONCTIONNEMENT

Publication  
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Application  
**EP 18205400 A 20181109**

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Abstract (en)  
The present invention provides a dust sensor module, comprising: a battery supplying power; a sensor sensing dust using power supplied from the battery; a detector detecting whether or not the dust sensor module is used; and a controller operating in a first mode or a second mode based on a detection result of the detector. The controller supplies the power to the sensor in the first mode and cuts off power supplied to the sensor in the second mode.

IPC 8 full level  
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CPC (source: EP KR)  
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Citation (search report)

- [XA] EP 1333555 A2 20030806 - MIELE & CIE [DE]
- [A] US 2010186187 A1 20100729 - CHEUNG WILLIAM K Y [HK], et al
- [A] US 5815884 A 19981006 - IMAMURA NOBUO [JP], et al
- [A] EP 2113182 A1 20091104 - BLACK & DECKER INC [US]

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